## SEQUENCE LISTING

_	(1) GENE	RAL INFORMATION:	
5	(i)	APPLICANT: Melton, Douglas A. Hemmati-Brivanlou, Ali	
10	(ii)	TITLE OF INVENTION: Method of Inducing and Maintaining Neuronal Cells	
	(iii)	NUMBER OF SEQUENCES: 2	
15 20	(iv)	CORRESPONDENCE ADDRESS:  (A) ADDRESSEE: LAHIVE & COCKFIELD  (B) STREET: 60 State Street  (C) CITY: Boston  (D) STATE: MA  (E) COUNTRY: USA  (F) ZIP: 02109	
25	(v)	COMPUTER READABLE FORM:  (A) MEDIUM TYPE: Floppy disk  (B) COMPUTER: IBM PC compatible  (C) OPERATING SYSTEM: PC-DOS/MS-DOS  (D) SOFTWARE: ASCII(TEXT)	
30	(vi)	CURRENT APPLICATION DATA:  (A) APPLICATION NUMBER: US  (B) FILING DATE: 09-MAR-1995  (C) CLASSIFICATION:	
35	(viii)	ATTORNEY/AGENT INFORMATION: (A) NAME: Vincent, Matthew P. (B) REGISTRATION NUMBER: 36,709 (C) REFERENCE/DOCKET NUMBER: HUI-009	
40	(ix)	TELECOMMUNICATION INFORMATION: (A) TELEPHONE: (617) 227-7400 (B) TELEFAX: (617) 227-5941	
	(2) INFO	RMATION FOR SEQ ID NO:1:	
45	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 1178 base pairs  (B) TYPE: nucleic acid	
50		(C) STRANDEDNESS: both (D) TOPOLOGY: linear	
50	(ii)	MOLECULE TYPE: cDNA	
55	(ix)	FEATURE: (A) NAME/KEY: CDS (B) LOCATION: 1081067	
60	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1:	
ou	GCGGCCGC	CC CCCCCCCGT CATTCAATAG AGTCCGGACT TGTGCCTGGT CCATTATCCC	60
65	ATCTCTCT	CC ACTTGAGACT CTGCTCGTCC CACTCCCAGC ACTGAGG ATG TTA AAT  Met Leu Asn	116

	AGG Arg 5								164
5	TTC Phe								212
10	TCG Ser								260
15	GAG Glu								308
20	GAT Asp								356
20	 GCC Ala 85	 						-	404
25	GGC Gly								452
30	GTC Val								500
35	GGA Gly								548
40	AAA Lys								596
40	AAA Lys 165								644
45	GTG Val								692
50	CCG Pro								740
55	ACC Thr								788
60	AGA Arg								836
υυ	TGT Cys 245								884
65	AGA Arg								932

	260					265					270					275	
5			AAG Lys														980
			GAG Glu														1028
10			GTG Val 310										TGA:	ATTA	CCG		1074
15	CAACGCAGAG TAAGATTTCT AAAGGCAACC CCTCGGTAAT GAAGACTTTA AAGCAGCAAA													1134			
	ATACTTTTTT TTTTTTTTT TCCTTTTTTT CTAAGGGAAT TCAG														1178		
20	(2) INFORMATION FOR SEQ ID NO:2:																
	(i) SEQUENCE CHARACTERISTICS:																
25	<ul><li>(A) LENGTH: 319 amino acids</li><li>(B) TYPE: amino acid</li><li>(D) TOPOLOGY: linear</li></ul>																
		( :	ii) N	MOLE	CULE	TYPE	E: pi	rote:	in								
30			ki) 5							-							
	Met 1	Leu	Asn	Glu	Arg 5	Ile	Gln	Pro	Gly	Met 10	Ile	Phe	Leu	Leu	Thr 15	Val	
35	Ser	Leu	Cys	His 20	Phe	Met	Glu	Tyr	Arg 25	Ala	Val	Gln	Ala	Gly 30	Asn	Cys	
	Trp	Leu	Gln 35	Gln	Ser	Lys	Asn	Gly 40	Arg	Cys	Gln	Val	Leu 45	Tyr	Arg	Thr	
40	Glu	Leu 50	Ser	Lys	Glu	Glu	Cys 55	Cys	Lys	Thr	Gly	Arg 60	Leu	Gly	Thr	Ser	
A.E.	Trp 65	Thr	Glu	Glu	Asp	Val 70	Pro	Asn	Ser	Thr	Leu 75	Phe	Lys	Trp	Met	Ile 80	
45	Phe	His	Gly	Gly	Ala 85	Pro	His	Cys	Ile	Pro 90	Cys	Lys	Glu	Thr	Cys 95	Glu	
50	Asn	Val	Asp	Cys 100	Gly	Pro	Gly	Lys	Lys 105	Cys	Lys	Met	Asn	Lys 110	Lys	Asn	
	Lys	Pro	Arg 115	Суз	Val	Cys	Ala	Pro 120	Asp	Cys	Ser	Asn	Ile 125	Thr	Trp	Lys	
55	Gly	Ser 130	Val	Cys	Gly	Ile	Asp 135	Gly	Lys	Thr	Tyr	Lys 140	Asp	Glu	Cys	Ala	
60	Leu 145	Leu	Lys	Ala	Lys	Cys 150	Lys	Gly	Val	Pro	Glu 155	Leu	Asp	Val	Gln	Туг 160	
	Gln	Gly	Lys	Cys	Lys 165	Lys	Thr	Cys	Arg	Asp 170	Val	Leu	Cys	Pro	Gly 175	Ser	
65	Ser	Ser	Cys	Val 180	Val	Asp	Gln	Thr	Asn 185	Asn	Ala	Tyr	Суѕ	Val 190	Thr	Cys	

	Asn	Arg	Ile 195	Cys	Pro	Glu	Pro	Thr 200	Ser	Pro	Asp	Gln	Tyr 205	Leu	Cys	Gly
5	Asn	Asp 210	Gly	Ile	Thr	Tyr	Gly 215	Ser	Ala	Cys	His	Leu 220	Arg	Lys	Ala	Thr
	Cys 225	Leu	Leu	Gly	Arg	Ser 230	Ile	Gly	Leu	Ala	Tyr 235	Glu	Gly	Lys	Cys	Il∈ 240
10	Lys	Ala	Lys	Ser	Cys 245	Glu	Asp	Ile	Gln	Cys 250	Ser	Ala	Gly	Lys	Lys 255	Cys
15	Leu	Trp	Asp	Ser 260	Arg	Val	Gly	Arg	Gly 265	Arg	Суѕ	Ala	Leu	Cys 270	Asp	Asp
13	Leu	Cys	Gly 275	Glu	Ser	Lys	Ser	Asp 280	Asp	Thr	Val	Cys	Ala 285	Ser	Asp	Asr
20	Thr	Thr 290	Tyr	Pro	Ser	Glu	Cys 295	Ala	Met	Lys	Gln	Ala 300	Ala	Cys	Ser	Thr
	Gly 305	Ile	Leu	Leu	Glu	Val 310	Lys			-	Ser 315	Cys	Asn	Cys	Lys	